

## INTERNATIONAL SEARCH REPORT

Int. nat. Application No.

PCT/US 03/25834

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G06T1/00 H04N1/32

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06T H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 187 478 A (MATSUSHITA ELECTRIC IND CO LTD) 13 March 2002 (2002-03-13) abstract figure 1 column 4	1-30
Y	EP 1 039 414 A (NIPPON ELECTRIC CO) 27 September 2000 (2000-09-27) abstract column 4, line 1 - line 14 column 8, line 8 - line 50 --- -/--	1-30

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

30 January 2004

Date of mailing of the international search report

10/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

dos Santos, L

# INTERNATIONAL SEARCH REPORT

In Application No

PCT/US 03/25834

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>HARTUNG F ET AL: "Digital watermarking of MPEG-2 coded video in the bitstream domain"  ACOUSTICS, SPEECH, AND SIGNAL PROCESSING,  1997. ICASSP-97., 1997 IEEE INTERNATIONAL  CONFERENCE ON MUNICH, GERMANY 21-24 APRIL  1997, LOS ALAMITOS, CA, USA, IEEE COMPUT.  SOC, US,  21 April 1997 (1997-04-21), pages  2621-2624, XP010225693  ISBN: 0-8186-7919-0  Section 1  figure 2  page 2623, right-hand column, line 11-17</p>	1-30
A	<p>KALKER T ET AL: "A VIDEO WATERMARKING  SYSTEM FOR BROADCAST MONITORING"  PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM,  VA, US,  vol. 3657, 25 January 1999 (1999-01-25),  pages 103-112, XP000949142  ISSN: 0277-786X  Section 3</p>	1-30
A	<p>LEE Y-H ET AL: "Perceptual activity  measures computed from blocks in the  transform domain"  SIGNAL PROCESSING, AMSTERDAM, NL,  vol. 82, no. 4, April 2002 (2002-04),  pages 693-707, XP004349788  ISSN: 0165-1684  Section 4</p>	1-30
A	<p>ARENA S ET AL: "Digital watermarking  applied to MPEG-2 coded video sequences  exploiting space and frequency masking"  IEEE INTERNATIONAL CONFERENCE ON IMAGE  PROCESSING,  vol. 1, 10 September 2000 (2000-09-10),  pages 438-441, XP010530645  abstract  page 439</p>	1-30
A	<p>HOLLIMAN M ET AL: "ADAPTIVE PUBLIC  WATERMARKING OF DCT-BASED COMPRESSED  IMAGES"  PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM,  VA, US,  vol. 3312, January 1998 (1998-01), pages  284-295, XP000953810  ISSN: 0277-786X  Section 3</p>	1-30

---  
-/--

## INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/US 03/25834

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KIM C: "Adaptive post-filtering for reducing blocking and ringing artifacts in low bit-rate video coding" SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 17, no. 7, August 2002 (2002-08), pages 525-535, XP004372660 ISSN: 0923-5965 abstract</p> <p>-----</p>	15-26

# INTERNATIONAL SEARCH REPORT

Int'l Application No

PCT/US 03/25834

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1187478	A	13-03-2002	CN 1340959 A	20-03-2002
			EP 1187478 A2	13-03-2002
			JP 2002165191 A	07-06-2002
			TW 538636 B	21-06-2003
			US 2002076082 A1	20-06-2002
EP 1039414	A	27-09-2000	JP 2000270204 A	29-09-2000
			CN 1267999 A	27-09-2000
			EP 1039414 A2	27-09-2000
			TW 508544 B	01-11-2002